06-0030
3-16-06
CA

Washington State Department of Transportation
Douglas B. MacDonald
Secretary of Transportation

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March 14, 2006

Mr. Dan Mathis
Division Administrator
Federal Highway Administration
711 South Capitol Way, Suite 501
Olympia, WA 98501-1284

Attn: Don Petersen

Subject: Statewide Blanket Proprietary Intelligent Transportation
Proprietary Item Request

Dear Mr. Mathis:

Enclosed is a Statewide blanket approval request for the 2005-2007 Biennium for use of ITS proprietary items.

As stated in the request these items are essential for synchronization with existing highway facilities throughout the state. Utilizing synchronized items will be a savings benefit, in time and money; thus it is in the public's best interest to use these products. The justifications met the conditions listed in CFR 635.411 and those listed in the WSDOT's Plans Preparation Manual Division 750.16.

It is possible that these items will be used on future New/Reconstruction projects, thus these requests are being forwarded to FHWA.

We concur with the request for proprietary item use through the 2005-2007 Biennium.

Sincerely,

Harold Peterfeso
State Design Engineer

HP: lb/ck
Enclosure

Washington State Department of Transportation

Memorandum

DATE: March 13, 2006

TO: Harold Peterfeso
State Design Engineer
MS-47330

Approval: FHWA

By: _____

Date: _____

THRU: Ted Trepanier/ Ted Bailey

FROM: Matt Neeley/Tu Ho

Concurrence:
State Design Engineer

SUBJECT: Blanket Proprietary Intelligent Transportation System (ITS) Item Approval Request-Wireless Communication

By: Harold Peterfeso

Date: 3.14.06 -6-30-07

Description
Headquarters Traffic Operations is requesting blanket proprietary approval for the following ITS materials for the 2005-2007 biennium. The materials submitted are essential for synchronization with existing highway facilities throughout the state. At this time, the ITS wireless communication office is in the process of, designing and implementing wireless systems to provide communication to distant ITS devices, where no other forms of reliable and cost effective communication are available. Given that other regions have implemented wireless system with identical hardware, it's possible to maintain consistency throughout the state. In the future, as technology develops interfaces that are more open may be developed which will reduce the need for proprietary items.

Headquarters Traffic Operations is building an ITS test site that will be used for testing new ITS equipment to help stay current with new technologies and remain competitive in our rapidly changing field. This test site will play a vital role in identifying new equipment that will help the department stay in touch with new equipment and processes.

Each material is identified below, along with justification for each item.

IndigoVision Video Encoder and Decoder
This brand of equipment is currently installed in three other DOT regions with great success. It's proven to be cost effective, and provide a stable platform for transporting video images.

Microwave System: Wi-Lan Radio, EtherWan Switch, and MaxRad Antenna Systems
These brands of equipment are part of an integrated microwave system designed and implemented by HQ ITS Communications & Wireless Technology in three different regions in the state. These system components are proven to be rugged, reliable, and cost effective.

Furthermore, the HQ ITS Communications & Wireless Technology office is considering using the above equipment brands as standard wireless communication equipment throughout the state, due to their successful installations at other regions. Also, there's great emphasis placed on center-to-center communications between regional TMC's for enhanced emergency response. Using the same communication equipment currently used at other regions will ensure system compatibility, and provide an integrated wireless ITS communication system throughout the state.

The technologies used in the above items are constantly improving. As such, we are continually evaluating the needs of our system and the equipment that best serves those needs.

If you have any questions or need additional information, please contact Martt Neeley at 360-705-7297

TB/MJN

Cc: file